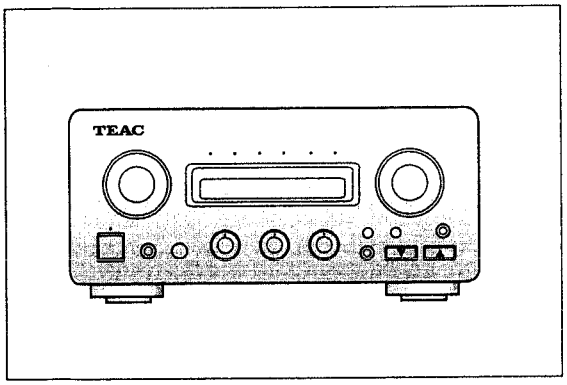

TEAC

SERVICE MANUAL

AG-H500

AM/FM STEREO RECEIVER

NOTES

- PC boards shown are viewed from parts side.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components.
  They must be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [DM]:JAPAN [E]: EUROPE [C]: CSA

9A06992000

CONTENTS

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Specifications

AMP Section

Power output	: 40W+40W (8 Ω, 1kHz, 0.1%)
Total harmonic distirtion	: 0.05% (40W, 1kHz, 8 Ω)
S/N Ratio(inout Short)	:
Phono	: 65dB(IHF-A)
CD, Tuner, Aux, Tape	: 92dB(IHF-A)
Input Sensitivity/Impedance:	
Phono(MM)	: 2.5mV/47k Ω
CD, Tuner, Aux, Tape	: 200mV/47k Ω
Maximum Input Level	:
Phono	: 45mV
CD, Tuner, Aux, Tape	: 4.5V
Channel Separation	: 56dB
(Input Short)	(1kHz, 1W, B.P.F)
Residual noise	: 0.6mV
Frequency response	: 5Hz to 85kHz
Tone control	:
Bass	: ± 10dB(100Hz)
Treble	: ± 10dB(10kHz)
Required speaker impedance	: 8Ω to 16Ω

General

Power Requirements	: 230V AC, 50Hz[EUR] 100V AC, 50Hz[DM] 120V AC, 60Hz[CSA/TW]
Power Consumption	: 100W[EUR] 75W[DM] 90W[CSA/TW]
Dimensions(W×H×D)	: 285×131×352
Weight(net)	: 6Kg

FM Section

Tuning Rane	: 87.50MHz~108.00MHz (50kHz steps)[EUR/TW] 76.0MHz~90.0MHz (100kHz steps)[DM] 87.50MHz~108.00MHz (100kHz steps)[CSA]
Usable Sensitivity(IHF)	: Mono:15dBf
50dB Quieting Sensitivity	:
Mono	: 30dBf
Stereo	: 40dBf
Image Reiection Ratio	: 40dB
Frequency Response	: 30Hz~15kHz +0.5dB/-3dB
Distortion(at 50dB μV)	:
Mono	: 0.4%
Stereo	: 0.5%
Signal-to-Noise Ratio(at 65dBf, 1kHz)	
Mono	: 65dB
Stereo	: 60dB
AM suppression Ratio	: 50dB
Stereo Separation(1kHz)	: 30dB

AM Section

Tuning Range	: 522kHz~1620kHz (9kHz steps)[EUR/DM/TW] 530kHz~1720kHz (10kHz steps)[CSA]
Usable Sensitivity	: 55dB/m
Image Reiection Ratio	: 35dB
Distortion	: 1.5%(at 85db/m)
Signal-to-Noise Ratio	: 35dB(at85dB/m)

Standard accessories

Remote control unit	: 1
Operator's manual	: 1
AM Loop Antenna	: 1
FM Antenna	: 1

■ ALIGNMENT INSTRUCTIONS

EQUIPMENT NEEDED:

AM Signal Generator
FM Signal Generator
Oscilloscope
VTVM(AC, DC)
Test loop antenna (AM Adjustment)
Dummy antenna (FM Adjustment)
Stereo signal modulator (RDS IN)
Frequency counter
Distortion analyser

IMPORTANT

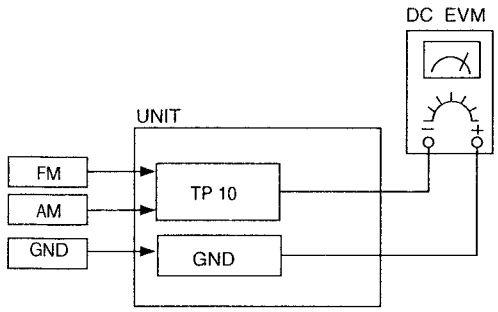
1. Check power-source voltage.
2. Set the function switch to band aligned.
3. Keep the signal input as low as possible to adjust accurately.
4. Modulation and modulation frequency.

Item / Band	Modulation	Modulation frequency
AM	30%	400Hz
FM	100%(75kHz Dev.)	400Hz

MEASUREMENTS AND ADJUSTMENTS

1. TUNING FREQUENCY RANGE ADJUSTMENTS

(FM,AM) DC VOLTMETER ·····CONNECT TO TEST POINT TP10 and GND



[EUR/TW]

No	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.5V	L7
2	AM	522kHz	1V	L105

[DM]

No	Band	Frequency	Adjust for	Adjustment
1	FM	76.0MHz	1.5V	L7
2	AM	522kHz	1V	L105

[CSA]

No	Band	Frequency	Adjust for	Adjustment
1	FM	87.50MHz	1.5V	L7
2	AM	520kHz	1V	L105

2. AM TRACKING ADJUSTMENTS

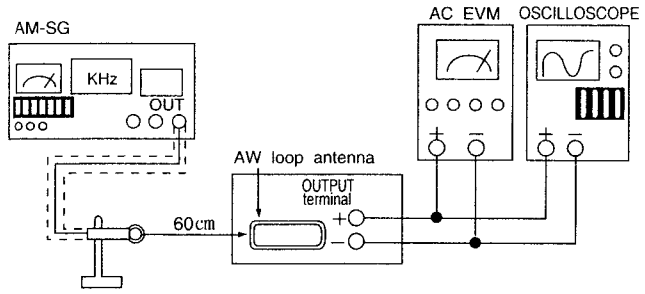
Signal Generator ·····Connects to the AM Ant. Coil through the loop antenna.
Adjust for the indication of VTVM of the wave form of scope to be maximum.

[EUR/DM/TW]

BAND	Step	Frequency	Adjust for	Adjustement
AM	1	612kHz	Maximum sensitivity	L103, T100
	2	1503kHz	Mzximum sensitivity	CT11
	3	Repeat steps 1 and 2 several times		

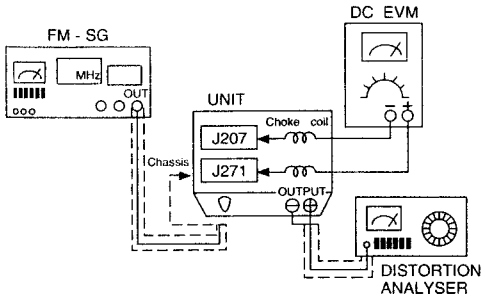
[CSA]

BAND	Step	Frequency	Adjust for	Adjustement
AM	1	610kHz	Maximum sensitivity	L103, T100
	2	1510kHz	Mzximum sensitivity	CT11
	3	Repeat steps 1 and 2 several times		



3. FM MONO DISTORTION ADJUSTMENT

DC VOLT METER ····· Connect to TP11(-), TP12(+) Through the choke coll (100μH)
Signal Generator ····· Connect to FM ANT Jack (FM IN) through the dummy.
Distortion Meter ····· Connect to the output



[EUR]

No	Frequency	Adjust for	Adjustment
1	100.10MHz	DC Voltmeter 0V	T101
2	100.10MHz	Minimum T. H. D	T102
3	Repeat steps 1 and 2 Several times.		

[DM]

No	Frequency	Adjust for	Adjustment
1	83.1MHz	DC Voltmeter 0V	T101
2	83.1MHz	Minimum T. H. D	T102
3	Repeat steps 1 and 2 Several times.		

4. FM/AM AUTO STOP LEVEL ADJUSTMENT

FM SIGNAL GENERATOR ····· Connec to FM ANT Jack(FM IN)through the dummy
AM SIGNAL GENERATOR ····· Connect to AM ANT, Coil through the Loop antenna

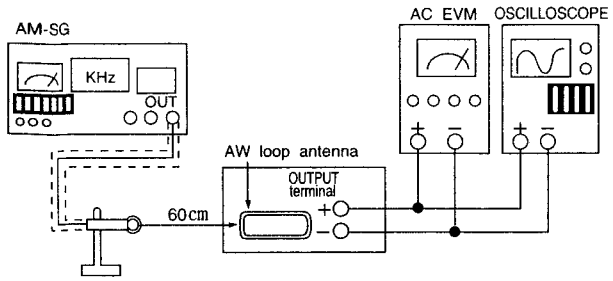
[EUR/CSA/TW]

BAND	STEP	SIGNAL GENERATOR	Adjust for	Adjustment
FM	1	100.1MHz 30dB	TUNED Display OFF	VR11
	2	100.1MHz 30dB	TUNED Display ON	VR11
AM	1	990kHz 80dB	TUNED Display OFF	VR21
	2	990kHz 80dB	TUNED Display ON	VR21

[DM]

BAND	STEP	SIGNAL GENERATOR	Adjust for	Adjustment
FM	1	83.1MHz 30dB	TUNED Display OFF	VR11
	2	83.1MHz 30dB	TUNED Display ON	VR11
AM	1	990kHz 80dB	TUNED Display OFF	VR21
	2	990kHz 80dB	TUNED Display ON	VR21

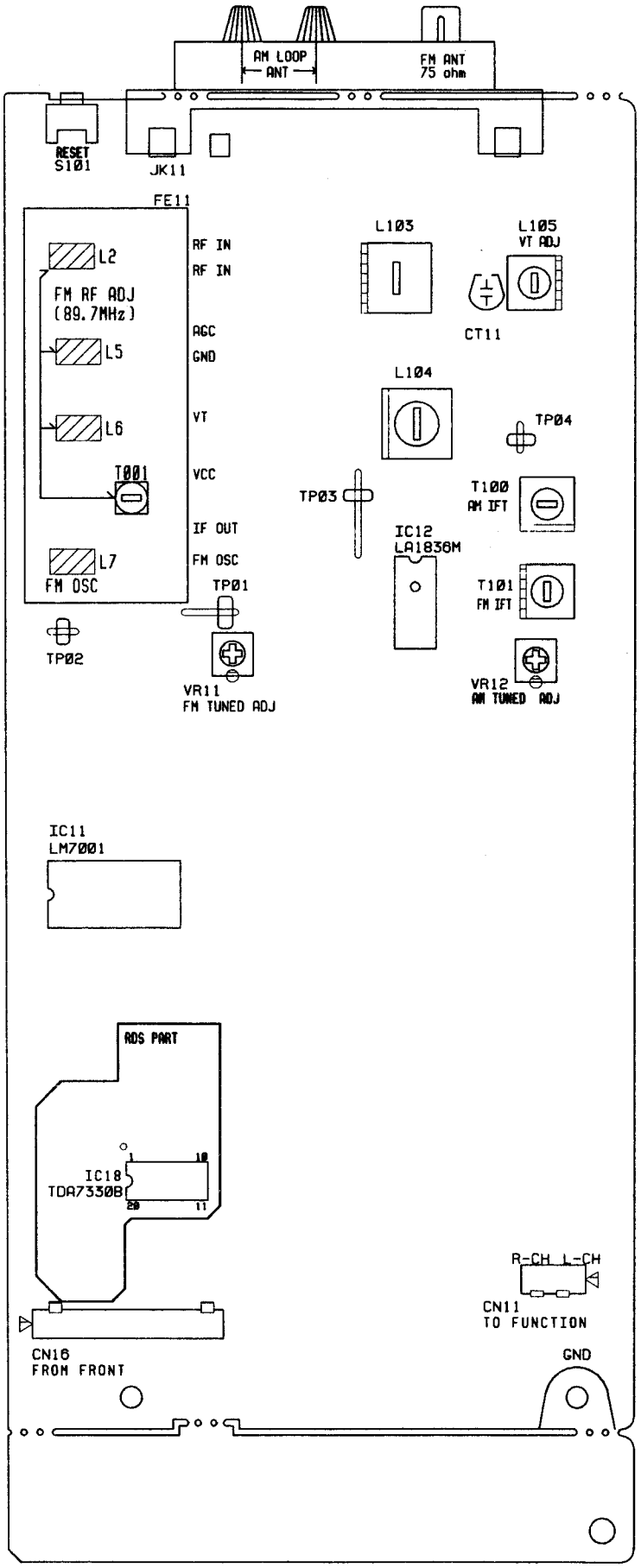
5. AM STEREO SEPARATION [DM]



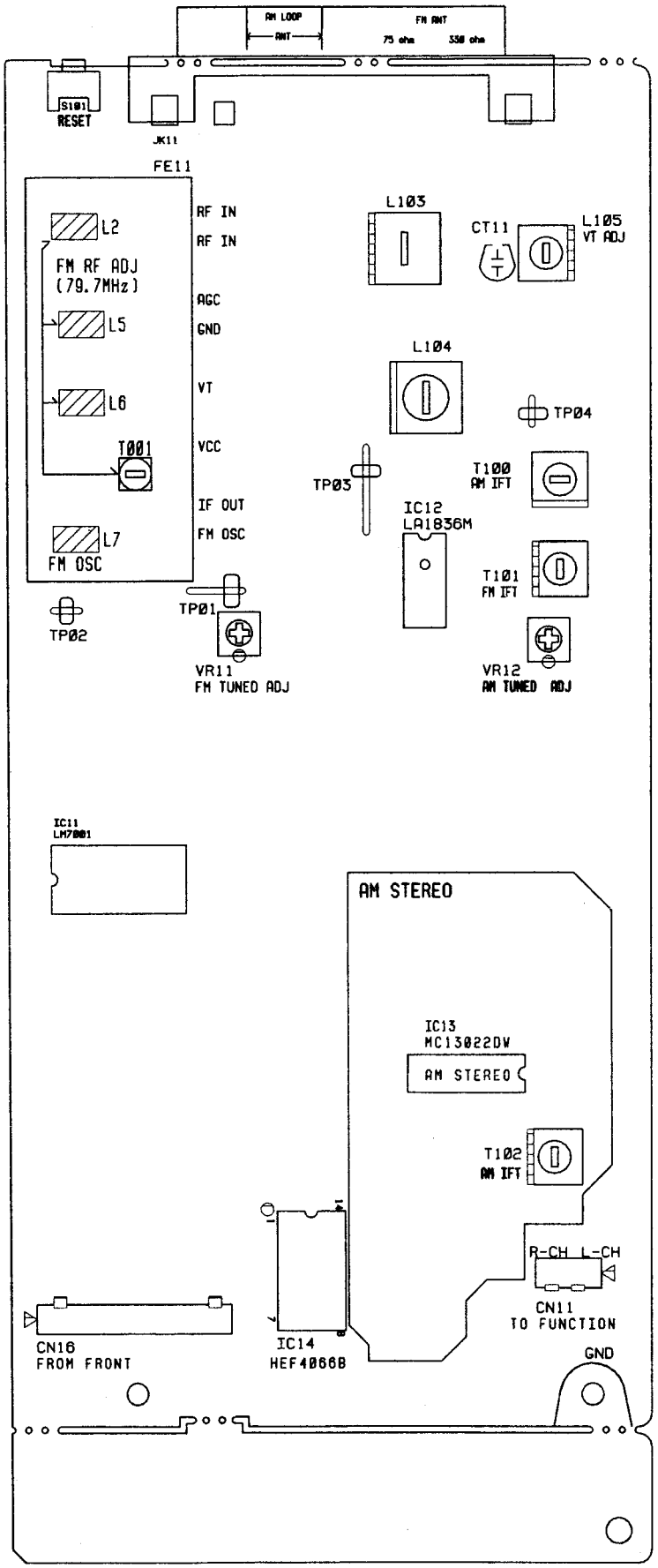
Pilot Signal	Adjust for	Adjustment
ON	Different of R and L must be maximum	T100

NOTE : In case of adjusting the stereo separation, of input is L(or R) channel, R(or L) channel must be maximum

ADJUSTMENT POINT (EUR)



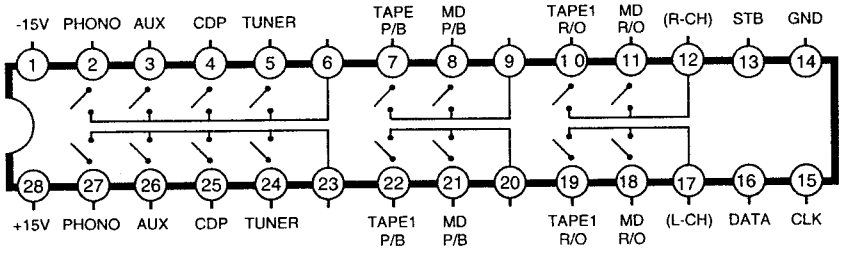
ADJUSTMENT POINT (DM)



IC Function (Micom BVIANAM 1243M, BVITMP87PM78F)

PIN NO.	SYMBOL	I/O	DESCRIPTION
1	Vdd	I	+5V
2	NC		NO Connection
3	Func, Mute	O	Function Mute ON/OFF Output
4	NC		No Connection
5	Tuner-Nute	O	Tuner Mute Output
6	Stereo/Mono	O	Stereo/Mono Switching Output
7~9	Func, Indicator	O	Function LED Drive Data Output
10	NC		No Connection
11	RDS-DATA	I	RDS DATA Output
12	FM-L	I	FM/AM Switching Output
13	RDS-CLK	I	RDS CLOCK input
14	Stereo-IN	I	Stereo Display input
15	Tuned-IN	I	Tuned Display input
16	Protect-IN	I	Protection input
17~21	Key Input	I	Resistor Divide Key Control Input
22	Vss		GND
23	Vass		GND
24	Varef		Vdd(+5V)
25	Vdd		+5V
26	Back-up	I	Backup Mode Control
27	Vss		GND
28~29	Func. Up/Down	I	Function UP/DOWN Input
30	Vss		GND
31	XIN	I	Crstal element Connection Terminal
32	XOUT	O	Crstal element Connection Terminal
33	RESET	I	RESET Input
34	Remote-In	I	Remote Control Data Input
35	BUS OUT	O	System Control Signal Output
36	BUS IN	I	System Control Signal Input
37	SPK ON/OFF	O	Speaker ON/OFF Output
38	NC		NO Connection
39	-20dB Mute	O	-20dB Mute Output
40	NC		No Connection
41	PLL CE	O	PLL Serial Chip Enable Output
42	PLL DATA	O	PLL Serial Data Output
43	PLL CLK	O	PLL Serial CLOCK Output
44	Option	O	Amp/Receiver Option
45	NC		No Connection
46	STB	O	Function IC Signal Output
47	DATA	O	Function IC Signal Output
48	CLK	O	Function IC Signal Output
49	NC		No Connection
50	Vkk		FIP Voltage Output
51~61	FIP GRID	O	FIP GRID Output
62~82	FIP ANODE	O	FIP ANODE Output
83~85	Option	O	Region Option
86	Option	O	Display Option
87	RDS	O	RDS ON/OFF Option
88	Model Option	O	Model Option
89	Standby	O	Standby/Direct Option Output
90	VOL UP	O	VOL UP
91	VOL DOWN	O	VOL DOWN
92	VOL LED	O	VOL LED Display
93	Power ON/Off	O	Power ON/Off Output
94	Standby LED	O	Standby LED ON/Off Output
95~100	NC		No Connection

IC BLOCK DIAGRAM



TO-92L

1. Emitter
2. Collector
3. Base

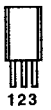
KSD1021Y KSC2785Y
KSR1206 KSR2206
KSA992F KSB811Y
KSR1204

TO-92

1. Emitter
2. Collector
3. Base

KTC3198Y
2SAC3200GR
KTD1302
KTC31920

TO-92L



1. Emitter
2. Collector
3. Base

KSA916Y
KSC2316Y

TO-220

1. Base
2. Collector
3. Emitter

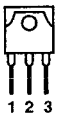
2SD1585L KSD288Y
KSA614Y

TO-220

1. INPUT
2. GND
3. OUTPUT

MC7812C

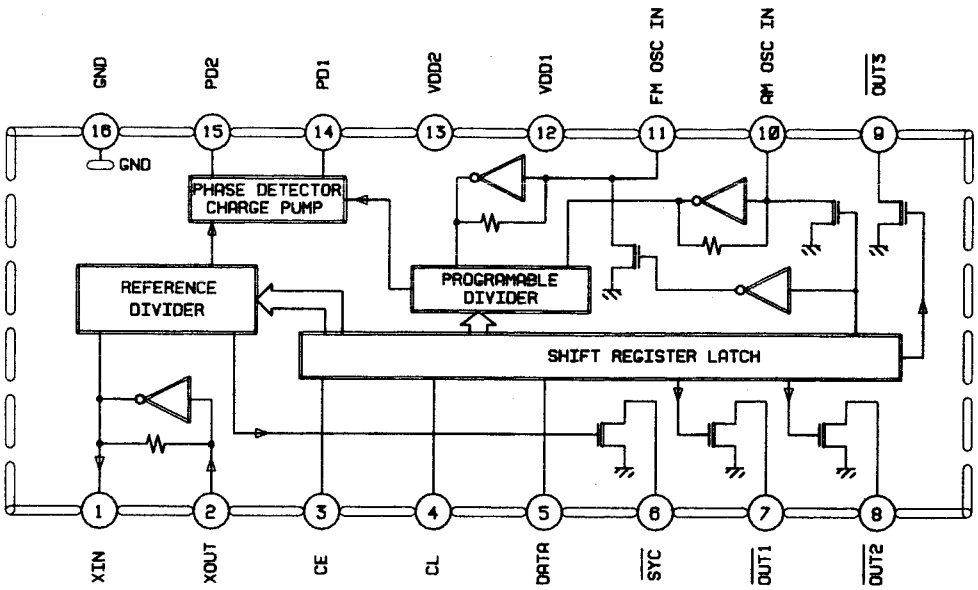
TO-3P



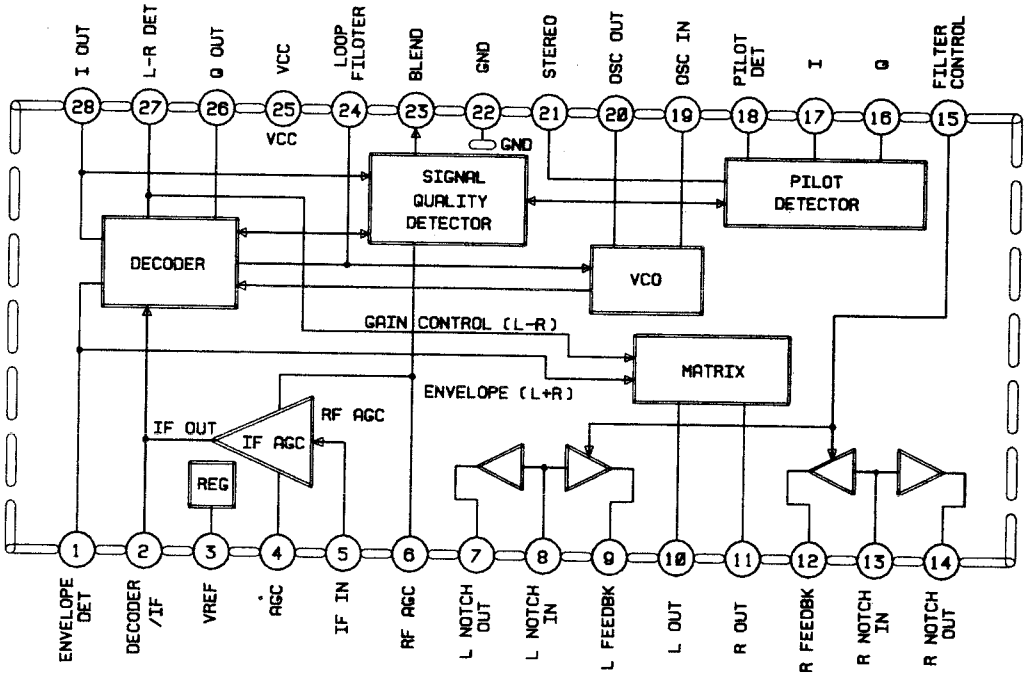
1. Base
2. Collector
3. Emitter

2SD998 2SB778

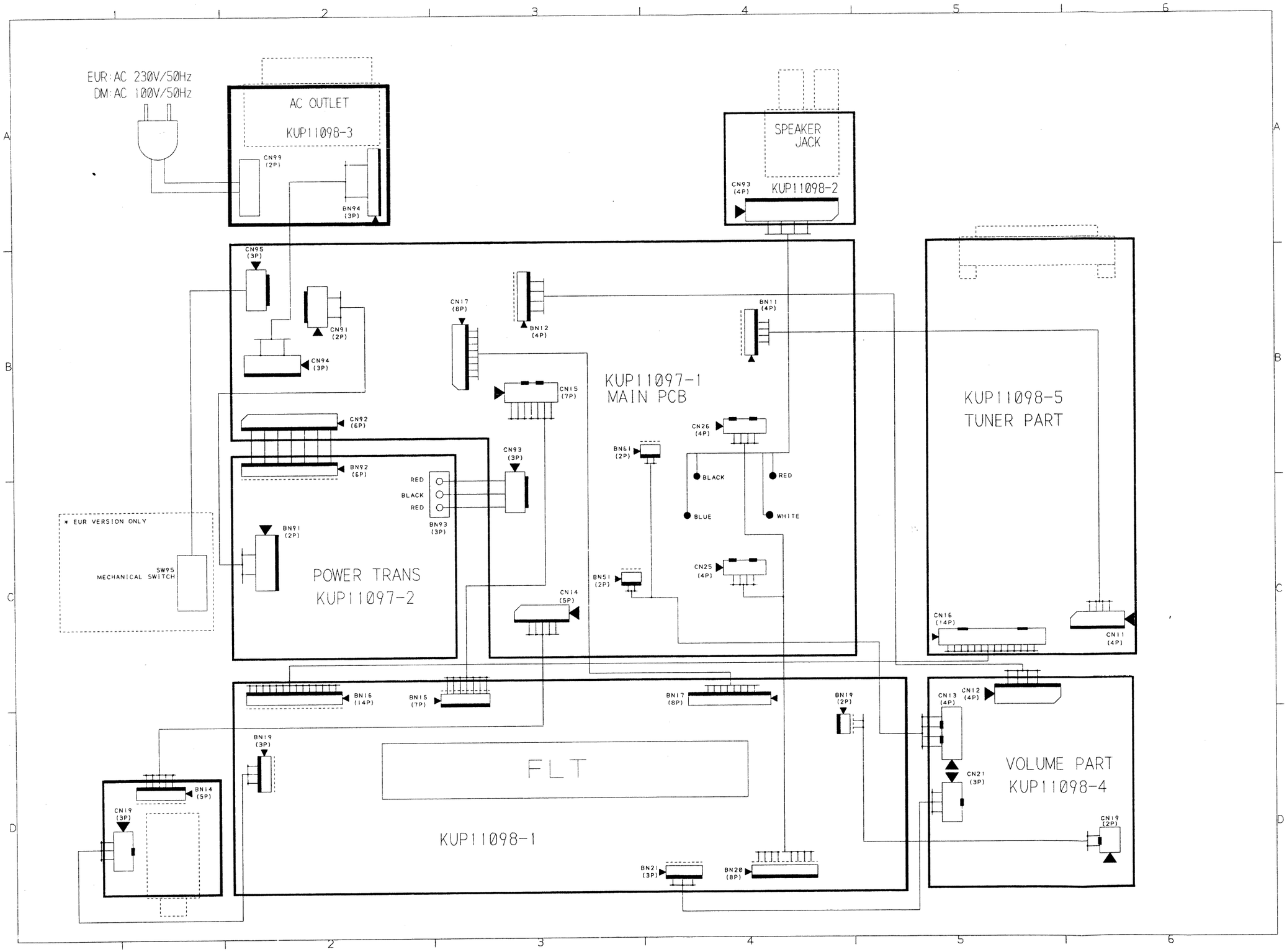
LM7001 PLL



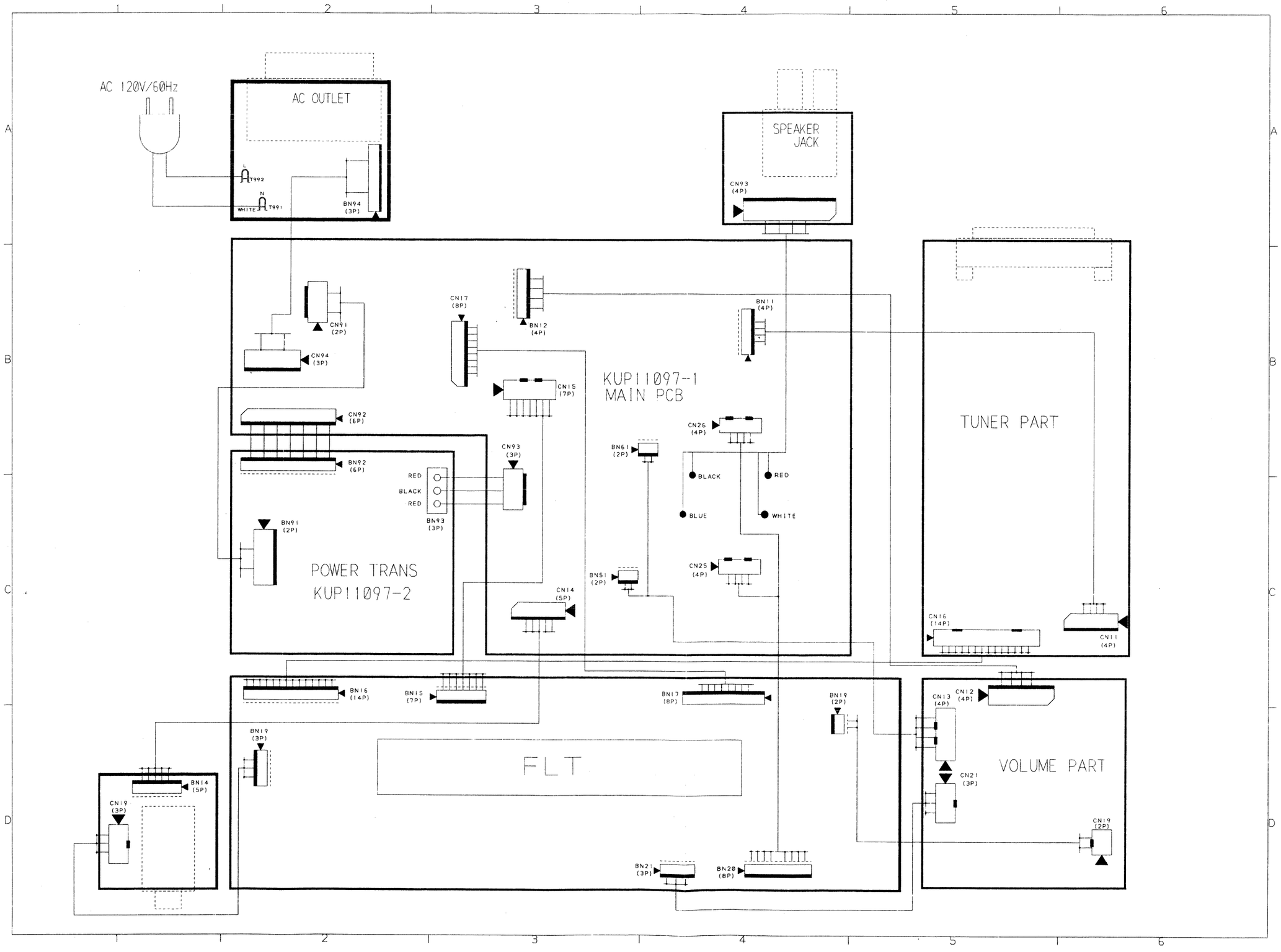
MC 13022DW AM STEREO DECODER



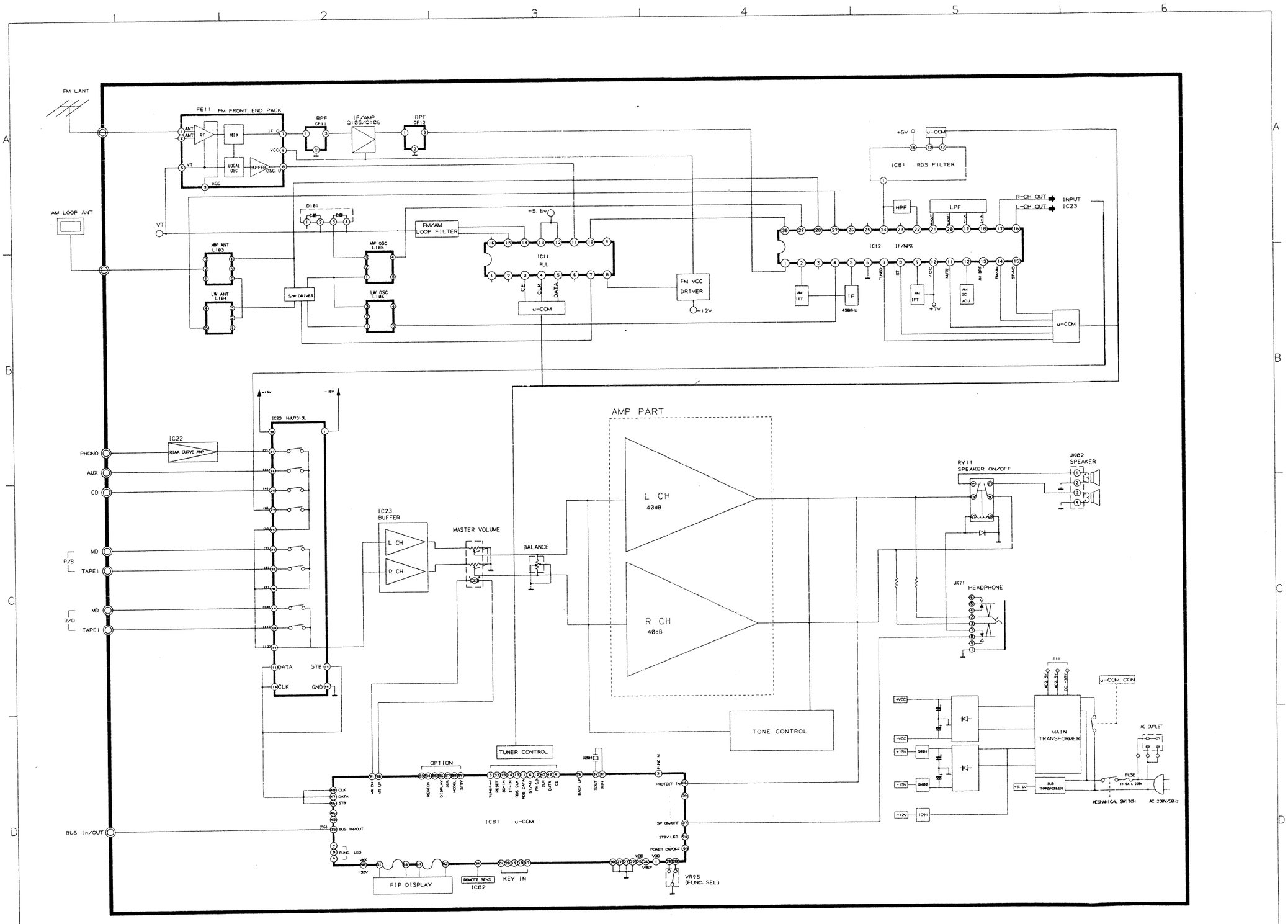
WIRING DIAGRAM (EUR) (DM)



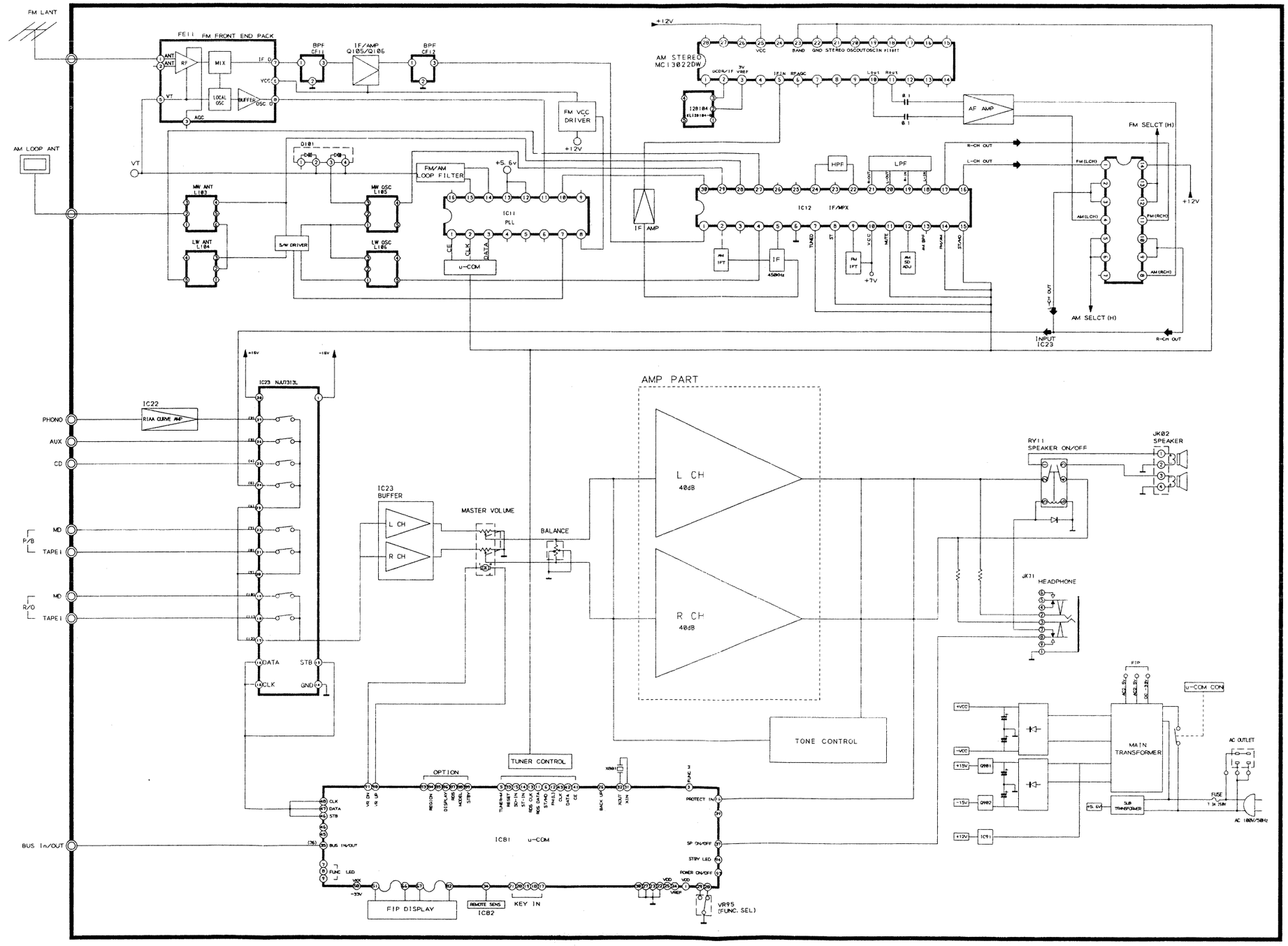
WIRING DIAGRAM (CSA/TW)



BLOCK DIAGRAM (EUR)



BLOCK DIAGRAM (DM)



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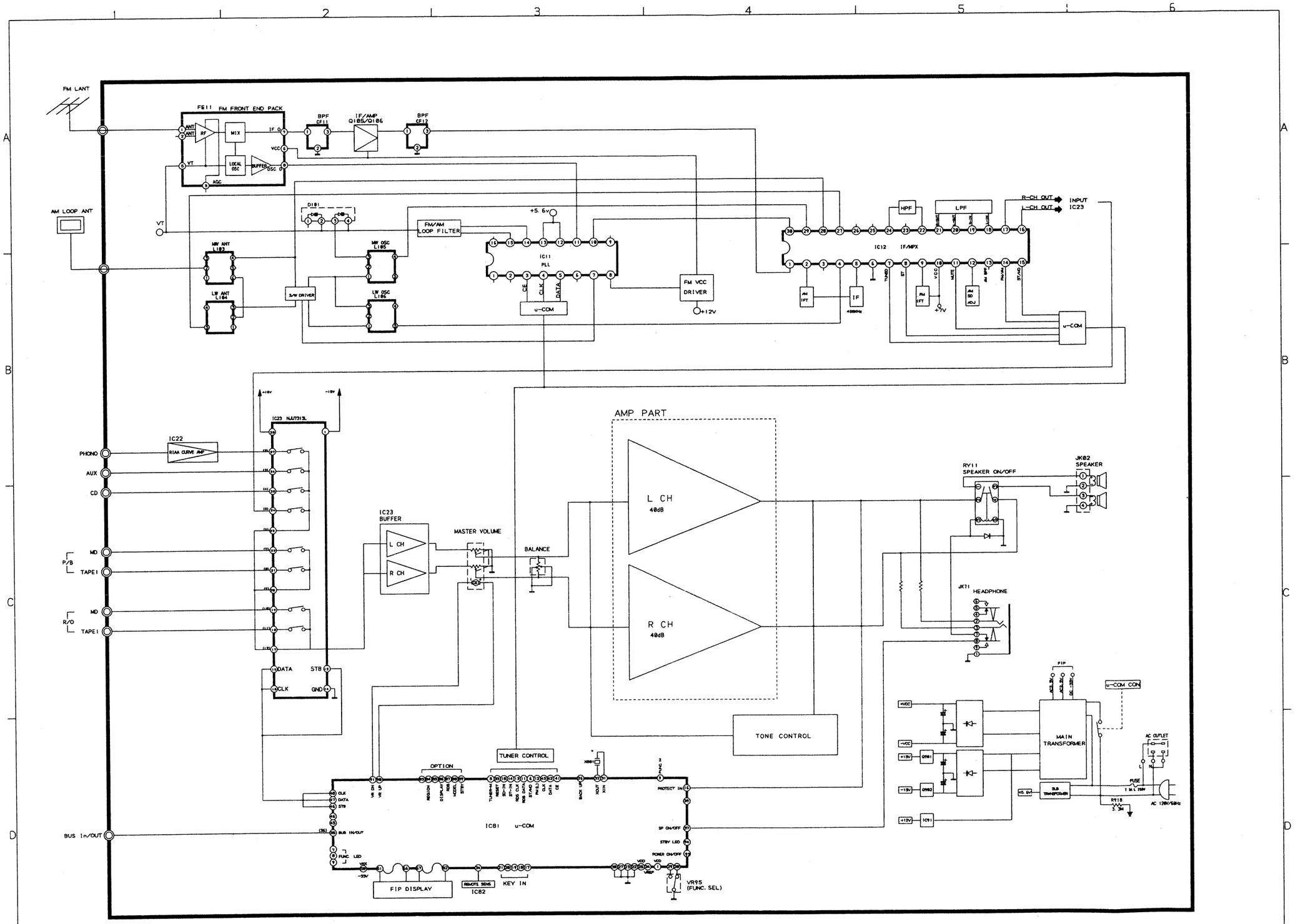
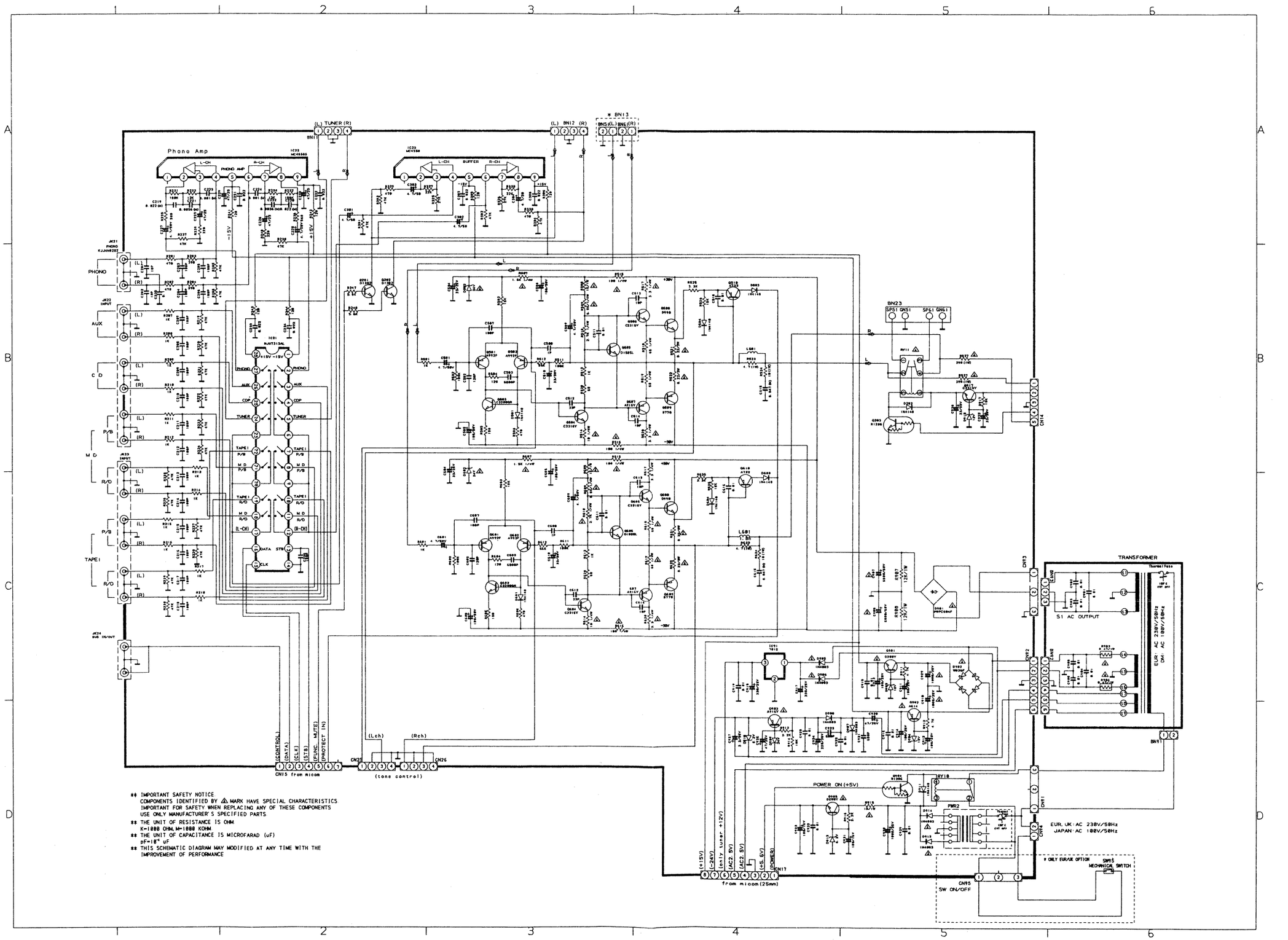
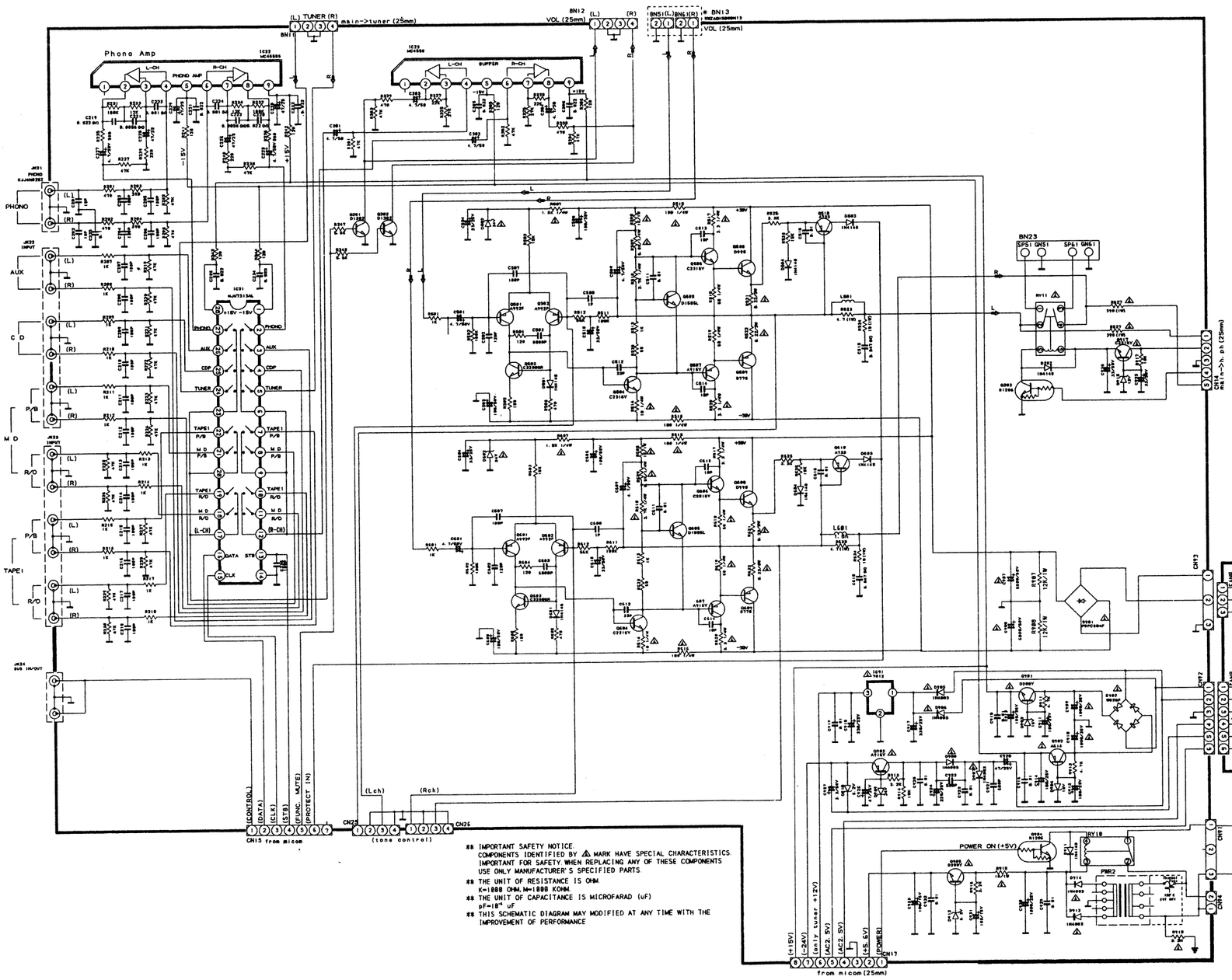


SCHEMATIC DIAGRAM (EUR) (DM)



** IMPORTANT SAFETY NOTICE
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS
IMPORTANT FOR SAFETY WHEN REPLACING ANY OF THESE COMPONENTS
USE ONLY MANUFACTURER'S SPECIFIED PARTS
** THE UNIT OF RESISTANCE IS OHM
K=1000 OHM, M=1000 KOHM
** THE UNIT OF CAPACITANCE IS MICROFARAD (uF)
pF=10^6 uF
** THIS SCHEMATIC DIAGRAM MAY MODIFIED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE

SCHEMATIC DIAGRAM (CSA/TW)



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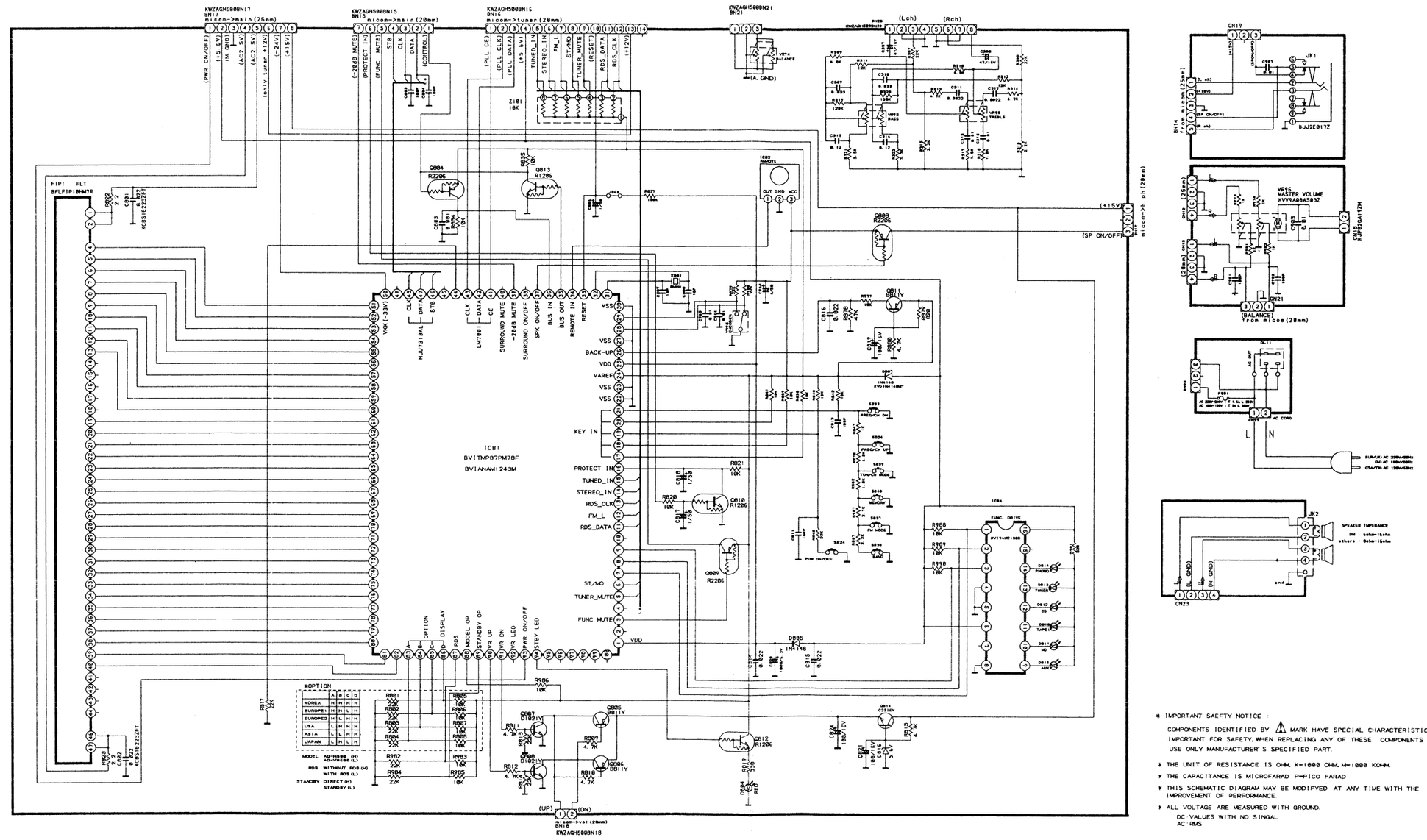
KWZAGH5008N17
BN17
micom->main(26mm)
(PWR ON/OFF)
(+5.5V)
(M GND)
(AC2.5V)
(AC2.5V)
(only tuner +12V)
(-24V)
(+15V)
KWZAGH5008N15
BN15
micom->main(28mm)
(-28dB MUTE)
(PROTECT IN)
(FUNC MUTE)
STB
CLK
DATA
(CONTROL)
KWZAGH5008N16
BN16
micom->tuner(28mm)
(PLL CE)
(PLL CLK)
(PLL DATA)
(+5.5V)
TUNED_IN
STEREO_IN
FM_L
ST/MO
TUNER MUTE
(RESET)
RDS_DATA
RDS_CLK
(+12V)
KWZAGH5008N21
BN21
VR74 BALANCE
(A. GND)
(Lch)
(Rch)
FIPI FLT
BFLFIPI8M47R
VKK(-23V)
NJU7313AL
CLK
DATA
STB
LM7881
CLK
DATA
CE
SURROUND MUTE
-28dB MUTE
SURROUND ON/OFF
SPK ON/OFF
BUS IN
BUS OUT
REMOTE IN
RESET
VSS
BACK-UP
VDD
VAREF
VSS
VSS
KEY IN
PROTECT IN
TUNED_IN
STEREO_IN
RDS_CLK
FM_L
RDS_DATA
ST/MO
TUNER_MUTE
FUNC MUTE
VDD
ICB1
BV1TMP87PM78F
BV1ANAM1243M
OPTION
DISPLAY
RDS
MODEL OP
STANDBY OP
VR UP
VR DN
VR LED
PWR ON/OFF
STBY LED
OPTION
A B C D
KOREA H H H H
EUROPE1 H H L H
EUROPE2 H L H H
USA L H H H
ASIA L H L H
JAPAN L H L H
MODEL AD-HS88 (H)
AD-VH888 (L)
RDS WITHOUT RDS (H)
WITH RDS (L)
STANDBY DIRECT (H)
STANDBY (L)
(UP)
(DN)
BN18
micom->vol(28mm)
KWZAGH5008N18
IC84
FUNC DRIVE
BV1TA4C1880
DB11 PHONO
DB13 TUNER
DB12 CD
DB16 TAPE
DB17 VD
DB18 AUX
(+15V)
(SP ON/OFF)
micom->ph(26mm)
CN19
BJJ2E817Z
VR96
MASTER VOLUME
KVV9A88A5832
(BALANCE)
from micom(28mm)
CN21
CN14
from micom(25mm)
AC CORD
L
N
JK2
SPEAKER IMPEDANCE
CN23
* IMPORTANT SAEFTY NOTICE
COMPONENTS IDENTIFIED BY ⚠ MARK HAVE SPECIAL CHARACTERISTICS.
IMPORTANT FOR SAFETY. WHEN REPLACING ANY OF THESE COMPONENTS
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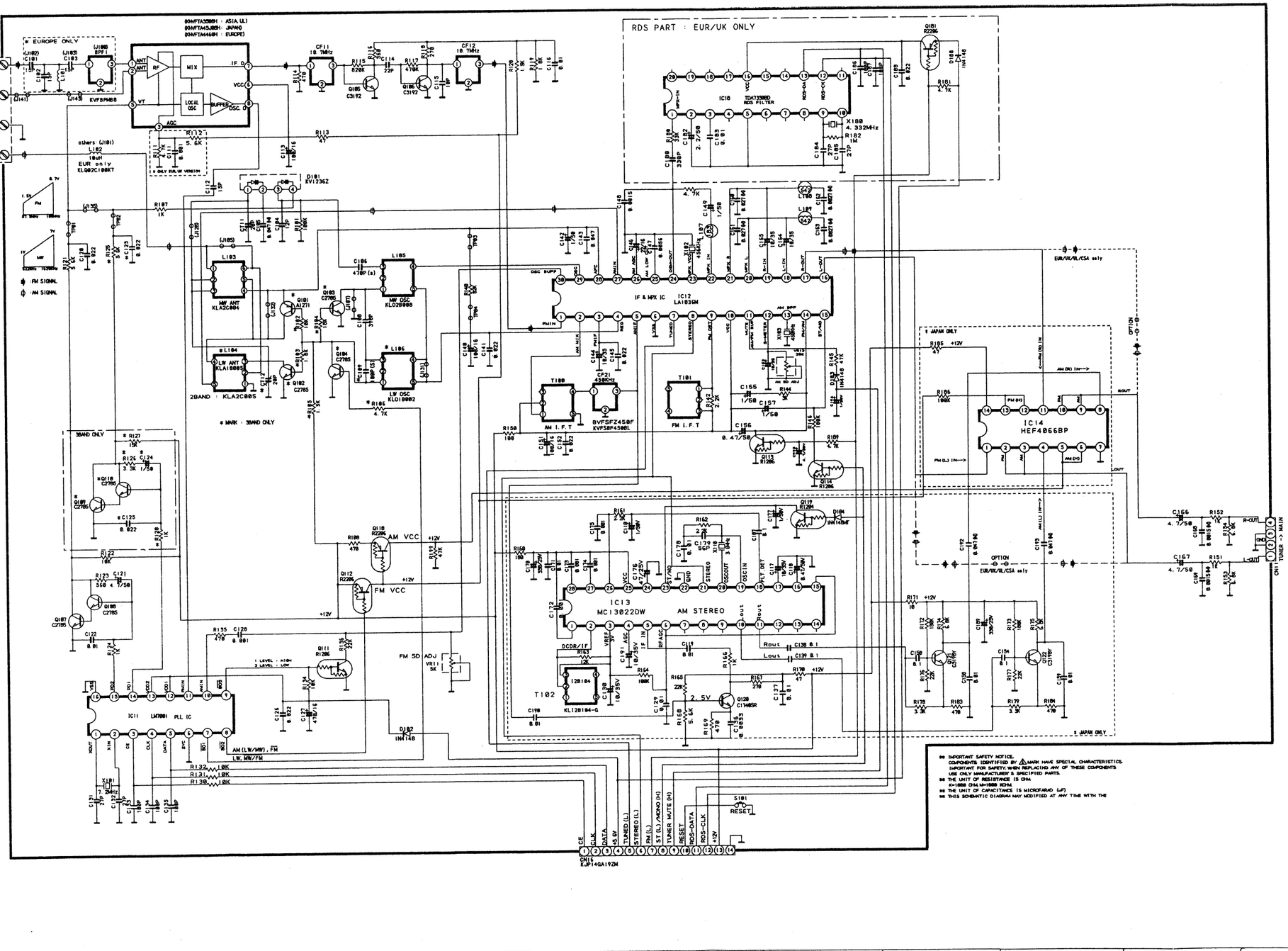
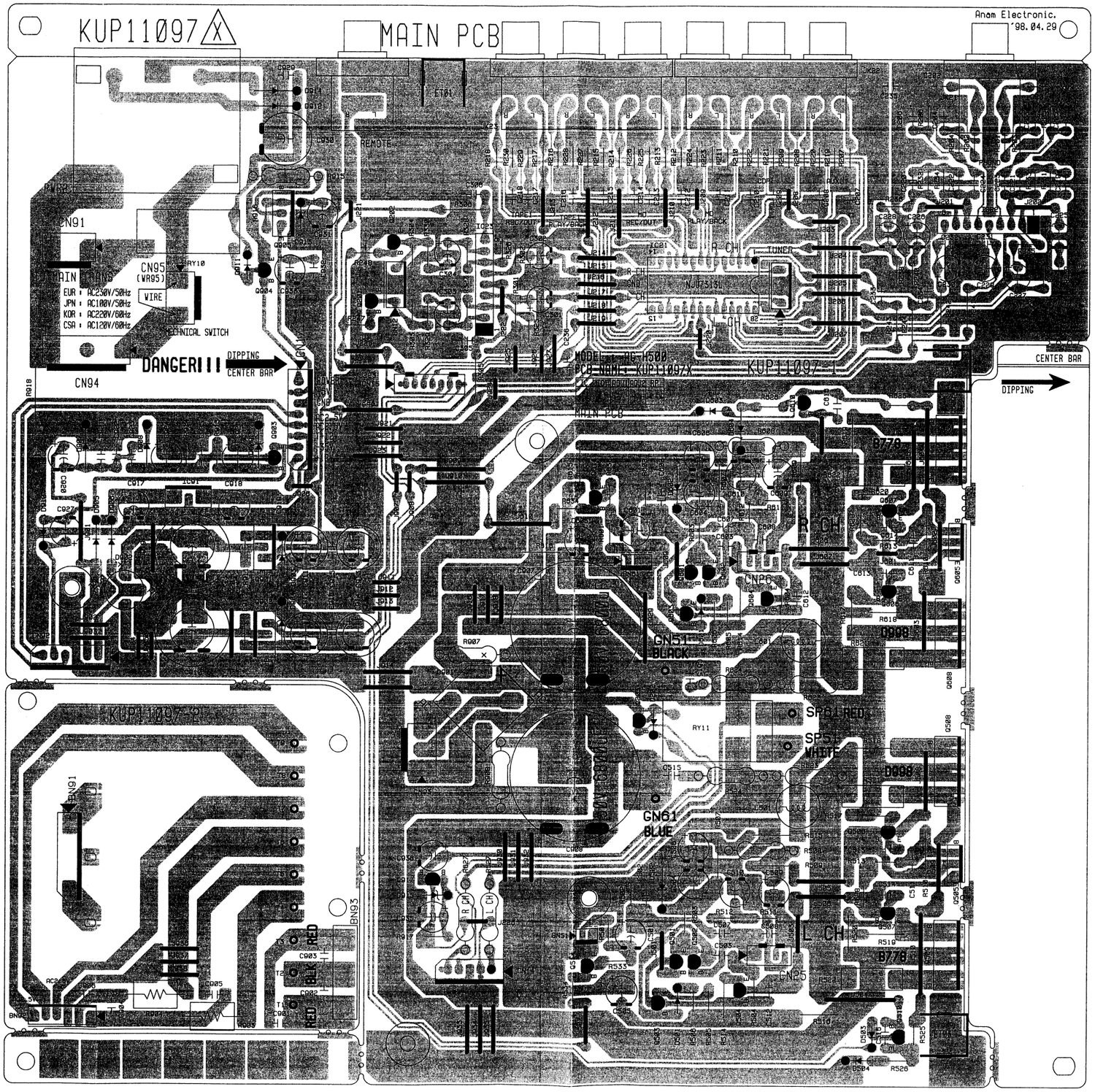
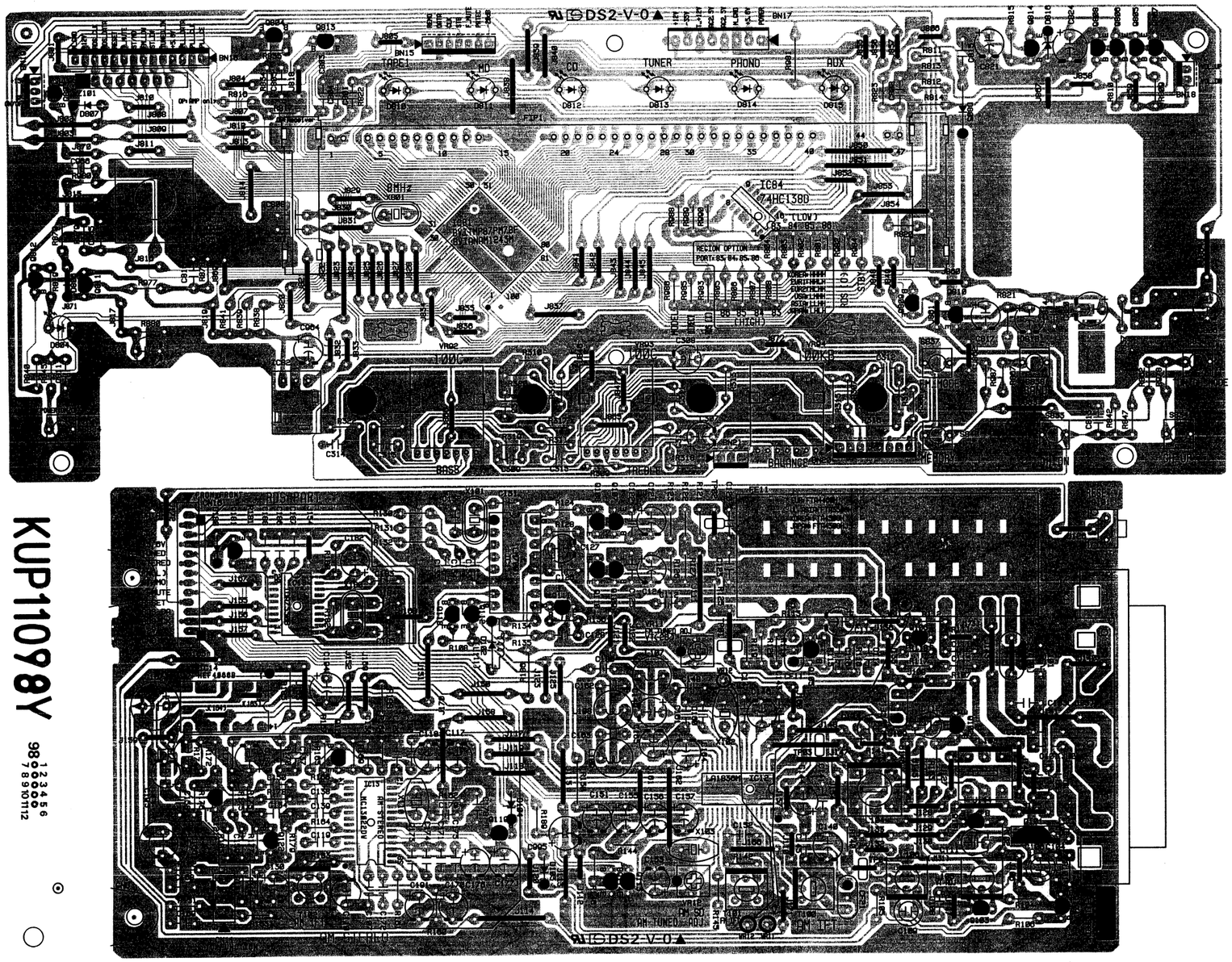
* THE CAPACITANCE IS MICROFARAD P=PICO FARAD
* THIS SCHEMATIC DIAGRAM MAY BE MODIFYED AT ANY TIME WITH THE
IMPROVEMENT OF PERFORMANCE
* ALL VOLTAGE ARE MEASURED WITH GROUND.
DC VALUES WITH NO SINGAL
AC RMS

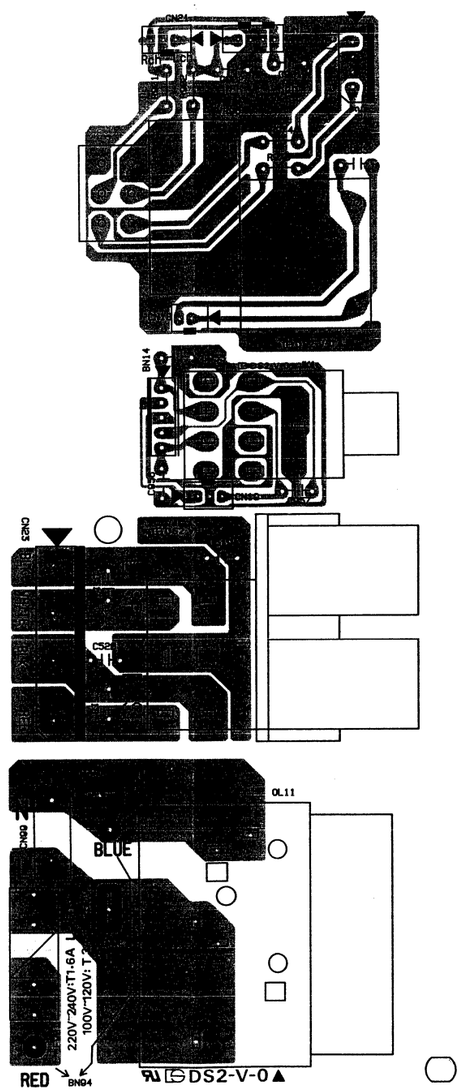

RDS PART : EUR/UK ONLY
IC16 TDA7330BD RDS FILTER
X180 4.332MHz
IC13 MC13022DW AM STEREO
IC14 HEF4066BP
IC11 LM7001 PLL IC
IF & MPX IC IC12 LA1837GM
AM I.F.T
FM I.F.T
AM VCC
FM VCC
FM SD ADJ
2BAND : KLA2C885
* MARK : 3BAND ONLY
EUR/UK/E/CSA only
J JAPAN ONLY
OPTION
AM LOOP ANT
EUR only KLQ92C180KT
RESET
CN11 KJP14GA19ZM
IMPORTANT SAFETY NOTICE.
THE UNIT OF RESISTANCE IS OHM
THE UNIT OF CAPACITANCE IS MICROFARAD (uF)

PRINTED CIRCUIT BOARDS



'97.12.08
Designed By LEE KEE MOO
MODEL: ARV-77/AG-H500
PCB NAME: KUP11098Y





KUP11098Y

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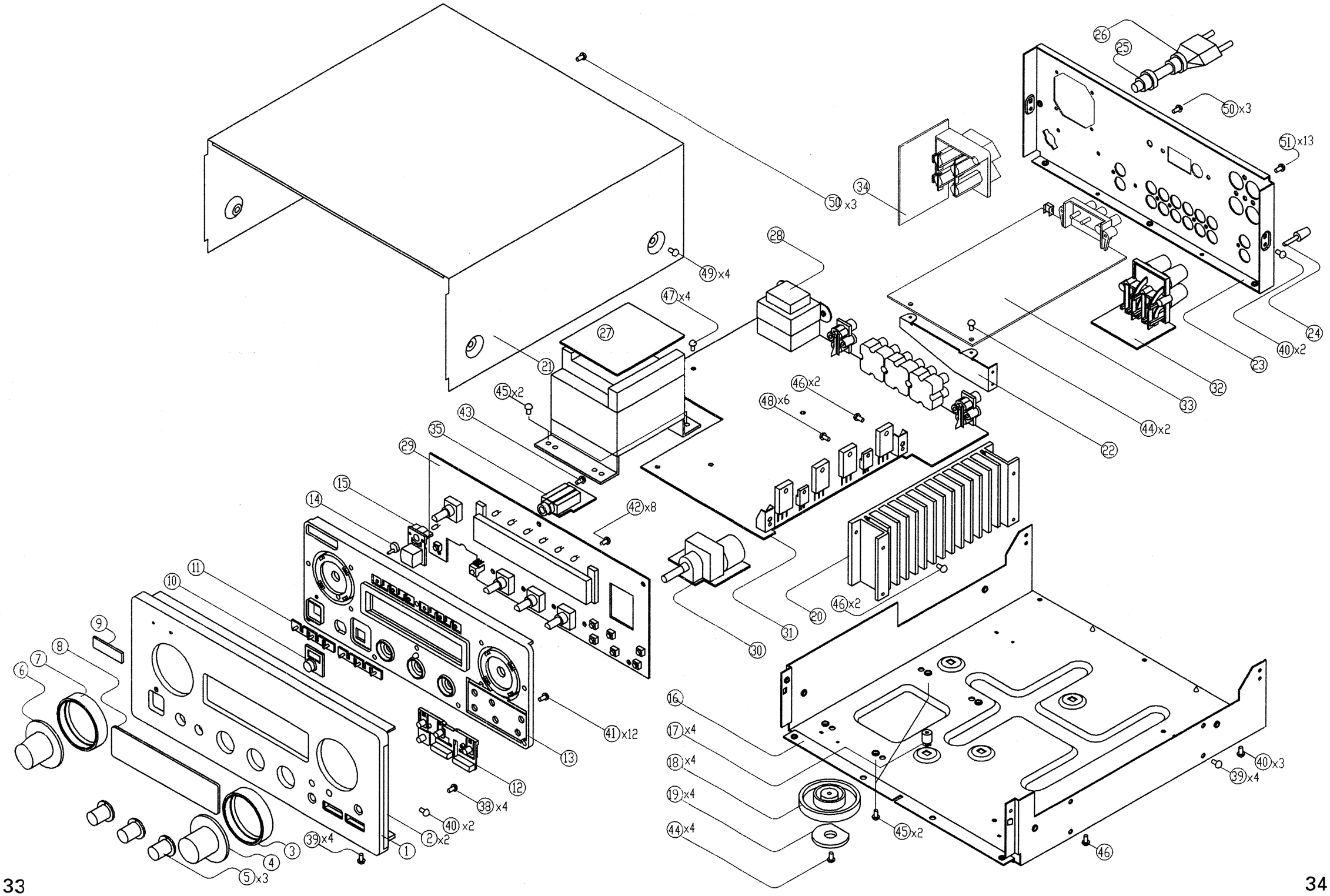
EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description	Remarks
1	9A06907100	PANEL, AL	
2	9A06677600	SIDE BAR	
3	9A06697200	HOUSING, VOLUME A4-96-2578	
4	9A06905800	VOLUME CAP ASS'Y	
5	9A06228400	VOLUME CAP ASS'Y (C)	
6	9A06905900	VOLUME CAP ASS'Y	
7	9A06906200	HOUSING, VOLUME	
8	9A06240500	WINDOW	
9	9A06224200	BADGE, TEAC	
10	9A06227600	SENSOR, WINDOW	
11	9A06905500	INDICATOR	
12	9A06904600	KNOB, TACT	
13	9A06905700	PANEL, MOLD	
14	9A06227400	INDICATOR, POWER	
15	9A06314500	KNOB. POWER	
16	9A06908600	CHASSIS, BOTTOM	
17	9A06229100	MOUNT, PCB A4-92-1728	
18	9A06315500	FOOT	
19	9A06229300	CUSHION, FOOT	
20	9A06907500	SINK, HEAT	
21	9A06698000	CABINET, TOP	
22	9A06907300	BRACKET, PCB	
23	9A06907000	PANEL, REAR	
24	9A05917200	GROUND TERMINAL	
25	9A01376900	BUSHING, AC CORD HEYCO (SR-)	
26	9A05328100	CORD, POWER	
27	—	POWER TRANS	
28	—	SUB TRANS	
29	—	FRONT PCB	
30	—	WOLUME MOTOR	
31	—	MAIN PCB	
32	—	SPEAKER PCB	
33	—	TUNER PCB	
34	—	OUTLET PCB	
35	—	HEADPHONE PCB	
38	9A06229000	SCREW, SPECIAL	
39	9A01397400	SCREW KTS3+8J	
40	9A01532600	SCREW KTB3+6J	
41	9A06234700	SCREW KTW3+6F	
42	9A01377400	SCREW, KTB3+10G	
43	9A01377600	SCREW, KTWS3+10G	
44	9A05339200	SCREW KTW3+8J	
45	—	SCREW KTB4+8F	
46	9A01535800	SCREW, KTB3+8J	
47	—	SCREW KTB3+14J	
48	9A01377500	SCREW	
49	9A05984300	SCREW KTB4+6FFZ	
50	9A01377200	SCREW KTB3+8JFZ	
51	9A01377300	SCREW, KTB3+10GFZ	

ELECTRICAL PARTS LIST

Ref. No.	Part No.	Description
	9A06907820	SUB PCB ASS'Y
	9A06907830	SUB PCB ASS'Y
	9A06907800	SUB PCB ASS'Y
	9A06908800	PCB, SUB
BN20	9A06909800	WIRE ASS'Y
BN21	9A06909900	WIRE ASS'Y
CN11, CN13	9A05356300	WAFER 04GA19ZM
CN12	9A05329300	WAFER MOLEX 5267-04A
CN16	9A06906800	WAFER
CN18	9A06250600	WAFER
CN19, CN21	9A05938500	WAFER (3P)
CN23	9A06906700	WAFER
CN99	9A06538200	WAFER SYFW800-02P
C307, C308	9A06904800	CAP, ELECT ACKS470T
C806, C964	9A06694700	CAP, ELECT KCEA1HKS1R0T
C817, C818	9A06694700	CAP, ELECT KCEA1HKS1R0T
C819, C821	9A06693400	CAP, ELECT KCEA1CKS101T
C824	9A06693400	CAP, ELECT KCEA1CKS101T
C820	9A06763200	CE, 1000UF H 6.3V DC
C309, C310	9A06905400	CAP, MYLAR SMALL B1H333JZT
C311, C312	9A06905300	CAP, MYLAR SMALL B1H222JZT
C313, C314	9A06905200	CAP, MYLAR SMALL B1H124JZT
C315, C316	9A06905100	CAP, MYLAR SMALL B1H103JZT
D805, D807	9A01390500	DIODE, 1N4148MT
D816	9A06765300	DIODE, MTZJ5.6BT
D804	9A05195000	LED, RED SLR342VCF02
D810~D815	9A05890300	LED, YELLOW SLR342YCF02
Q803, Q804	0A03745200	TR, KSR2206TA
Q809	9A03745200	TR, KSR2206TA
Q805,Q806	9A03747300	TR, KSB811-YTA
Q811	9A03747300	TR, KSB811-YTA
Q807,Q808	9A03711700	TR, KSD1021-YTA
Q810	9A05196900	TR, KSR1206TA
Q812, Q813	9A05196900	TR, KSR1206TA
Q814	9A05196800	TR, KSC2316-Y-SHTA
S824, S833	9A06671200	SW. TACT EVQ21505R
S834	9A06671200	SW. TACT EVQ21505R
S837~S840	9A06671200	SW. TACT EVQ21505R
T991, T992	9A06012400	TERMINAL, LUG
VR92, VR93	9A06673000	RES, VARIABLE
VR94	9A06673100	RES, VARIABLE
VR95	9A06224700	VR, ENCODOR EC16B1210
VR96	9A06237000	VOLUME, MOTOR RK6312MC282
X801	9A05193000	SRYSTAL, 0B000E160C
CF21	9A07006300	FILTER CERAMIC
CT11	9A01405900	C, VARIABLE 20PF A020S12
C106	9A01507300	C, SEMI-CON 470PF/50V
CF11, CF12	9A06544600	CERAMIC, FILTER
C113, C140	9A06693200	CE, 100UF H 16V DC
C151	9A06693200	CE, 100UF H 16V DC
C127	9A06765000	CE, 470UF H 16V DC
C176	9A06693600	CE, 47UF H 25V DC
C170, C189	9A06878900	CAP, ELECT A1EH331T

Ref. No.	Part No.	Description
C117, C130	9A06694900	CE, 10UF H 35V DC
C144, C153	9A06694900	CE, 10UF H 35V DC
C164, C165	9A06694900	CE, 10UF H 35V DC
C191	9A06694900	CE, 10UF H 35V DC
C118, C156	9A06694000	CE, 0.47UF H 50V DC
C121	9A06694500	CE, 4.7UF H 50V DC
C155	9A06694700	CAP, ELECT KCEA1HKS1R0T
C175	9A05318800	CC, 1000PF K B 50V
C110, C142	9A06694100	CE, 1.0UF H 50V DC
C149, C177	9A06694100	CE, 1.0UF H 50V DC
C194	9A06694100	CE, 1.0UF H 50V DC
C166, C167	9A06869000	CAP, ELECT A1HQ4R7T
C162, C163	9A06766600	CQ, 0.0027UF J 50V
C160, C161	9A06766500	CQ, 0.027UF J 50V
C105	9A06696200	CQ, 0.047UF J 50V
C168, C169	9A06696200	CQ, 0.047UF J 50V
D102~D104	9A01390500	DIODE, 1N4148MT
D101	9A06767400	D, SVC342LT
ET11	9A05961500	PLATE, EARTH
FE11	9A05938700	TUNER, PACK
FIP1	9A06672600	F.I.P BFLFIP10HM7R
IC12	9A06767500	IC, LA1836M
IC13	9A06258500	I.C, AM STEREO MC13022DW
IC18	9A06786600	IC, TDA7330BD
IC81	9A06786000	IC, TMP87PM78F
IC84	9A06904500	IC, 74HC138D
IC11	9A04323300	IC, LM7001
IC14	9A07006400	IC, HEF4066BP
IC82	9A06757900	IC, PNA4612M00HB
JK01	9A05316900	JACK HTJ064-058G
JK02	9A06677000	TERMINAL SP
JK11	9A04875900	TERMINAL, ANT DC-D2100
JK11	9A06259400	TERMINAL, ANT 75/300
L104	9A06259900	COIL, AM ANT2
L105	9A05332500	COIL, AM OSC 2B008Z
L107	9A05332600	COIL A183KWCZ
L108, L109	9A04883400	COIL, DC-D2100
OL11	9A05895700	OUTLET, AC
OL11	9A06224300	OUTLET CCT1304-0211
Q105, Q106	9A05197300	TR, KTC3192OT
Q107, Q108	9A03745000	TR, KSC2785-YTA
Q119	9A03747200	TR, KSR1204TA
Q111	9A05196900	TR, KSR1206TA
Q113, Q114	9A05196900	TR, KSR1206TA
Q112, Q118	9A03745200	TR, KSR2206TA
Q120	9A05939500	TR., 2SC1740SR
Q121, Q122	9A05892800	TR, KTC3198YT
S101	9A04882400	SW, TACT DC-D2100
T100	9A05939400	IFT, AM
T101	9A06762200	I.F.T, FM
T102	9A06260000	I.F.T, AM 2B104-G
VR11, VR12	9A06910600	WIRE ASS'Y

Ref. No.	Part No.	Description
X101	9A06762300	CRYSTAL
X102	9A06762400	RESONATOR, CERAMIC
X103	9A06762500	FILTER, CERAMIC
X110	9A06258200	RESONATOR CSA3.60MGF103
Z101	9A05337900	R, NETWORK SN8X103J
	9A06906300	MAIN PCB AUTO ASS'Y
	9A06907700	MAIN PCB ASS'Y
	9A07006600	PCB MAIN
BN11	9A06908900	WIRE ASS'Y
BN12	9A06909000	WIRE ASS'Y
BN13	9A06909100	WIRE ASS'Y
BN23	9A06910000	WIRE ASS'Y
CN14	9A05894700	WAFER (5P)
CN15	9A05356500	WAFER MOLEX53014-0710
CN17	9A06250800	WAFER MOLEX 5267-08A
CN25, CN26	9A05356300	WAFER 04GA19ZM
CN91	9A06785000	WAFER
CN92	9A05329600	WAFER MOLEX 5267-06A
CN93	9A06759300	WAFER
CN94	9A06757700	WAFER
C931, C933	9A06693200	CE, 100UF H 16V DC
C225, C226	9A06693600	CE, 47UF H 25V DC
C229, C230	9A06693600	CE, 47UF H 25V DC
C920, C926	9A06693600	CE, 47UF H 25V DC
C504, C604	9A06868700	CAP, ELECT A1EH330T
C911~C914	9A06226600	CAP, ELECT
C917, C918	9A06878900	CAP, ELECT A1EH331T
C930	9A06226700	CE, 1000UF H 25V DC
C924	9A06695000	CAP, ELECT KCEA1VH221T
C909, C910	9A06904900	ELECT, CAP (1000UF/35V AHS)
C927	9A06694300	CE, 3.3UF H 50V DC
C227, C228	9A06694500	CE, 4.7UF H 50V DC
C301~C304	9A06869000	CAP, ELECT A1HQ4R7T
C501, C601	9A06869000	CAP, ELECT A1HQ4R7T
C509, C609	9A06869000	CAP, ELECT A1HQ4R7T
C510, C610	9A06694400	CE, 33UF H 50V DC
C935, C936	9A06694400	CE, 33UF H 50V DC
C505, C506	9A06764800	CE, 100UF H 50V DC
C605, C606	9A06764800	CE, 100UF H 50V DC
C907, C908	9A06905000	CAP, ELECT
C223, C224	9A06695500	CQ, 0.0010UF J 50V
C221, C222	9A06696300	CQ, 0.0056UF J 50V
C503, C603	9A06786200	CQ, 0.0068UF J 50V
C901~C906	9A06695600	CQ, 0.010UF J 50V
C915, C916	9A05318400	CC, 10000PF Z F 25V
C219, C220	9A06695900	CQ, 0.022UF J 50V
C515, C615	9A06696200	CQ, 0.047UF J 50V
D604	9A01390600	DIODE, 1N4148T
D202, D501	9A01390500	DIODE, 1N4148MT
D503, D504	9A01390500	DIODE, 1N4148MT
D601, D603	9A01390500	DIODE, 1N4148MT
D911	9A01390500	DIODE, 1N4148MT
D905~D908	9A05194700	DIODE, 1N4003ST
D912, D914	9A05194700	DIODE, 1N4003ST
D502, D602	9A06256300	DIODE, ZENER UZ24BMT
D909	9A06256300	DIODE, ZENER UZ24BMT
D903, D904	9A05970800	DIODE, UZ16BMT

Ref. No.	Part No.	Description
D910, D913	9A06236200	DIODE, ZENER MTZJ6.2BT
D915	9A05359600	DIODE, ZENER MTZJ12BT
D901	9A05353100	DIODE, BRIDGE PBPC604F
D902	9A05987000	DIODE, BRIDGE W02GF
ET01~ET03	9A06252900	BRACKET, PCB
IC21	9A06761700	IC, NJU7313L
IC22, IC23	9A05195800	IC, MC4558C
IC91	9A05196000	IC, KA7812-ABTU
JK21	9A06906500	JACK, INPUT
JK22, JK23	9A06674900	JACK, BOARD 4R014Z
JK24	9A06906600	JACK REMOTER
L501, L601	9A04875100	COIL, DC-D2100
PW2	9A06675500	TRANS SUB
PWR2	9A06814100	TRANS SUB
Q901, Q905	9A01388300	TR, KSD288-Y-AB
Q902	9A01388400	TR, KSA614-Y
Q201, Q202	9A05197500	TR, KTD1302T
Q203, Q904	9A05196900	TR, KSR1206TA
Q501, Q502	9A05341600	TR, KSA992-FTA
Q601, Q602	9A05341600	TR, KSA992-FTA
Q503, Q603	9A06236700	TR, KTC3200GRT
Q504, Q506	9A05196800	TR, KSC2316-Y-SHTA
Q604, Q606	9A05196800	TR, KSC2316-Y-SHTA
Q917	9A05196800	TR, KSC2316-Y-SHTA
Q507, Q607	9A05196700	TR, KSA916-Y-SHTA
Q903	9A05196700	TR, KSA916-Y-SHTA
Q510, Q610	9A01387400	TR, KSA733CYT
Q505, Q605	9A05977200	TR. 2SD1585
Q508, Q608	9A05359800	TR, KTD9980
Q509, Q609	9A05359700	TR, KTB7780
R903, R904	9A05897200	RES, FUSE 0.47-OHM, 1W
R521, R522	9A05896300	R., 0.22-OHM, 5W
R621, R622	9A05896300	R., 0.22-OHM, 5W
R508, R608	9A06908200	RES, METAL OXIDE FILM
R523, R623	9A05896400	R., 4.7-OHM, 1W
R524, R624	9A05338000	R, METAL OXIDE FILM 1W 10
R915	9A05338000	R, METAL OXIDE FILM 1W 10
R527, R627	9A05338200	R, METAL OXIDE FILM 1W 390
R907, R908	9A06908300	RES, METAL OXIDE FILM
RY10	9A05987100	RELAY HR-CR7-DC12V
RY11	9A04879000	RELAY, OSA-SS-212DM3
SW95	9A06910500	POWER SWITCH ASS'Y
SW95	9A06699800	SW, PUSH JRA1202F
	9A05328100	CORD, POWER
	9A06730800	CORD, POWER
	9A06242000	CORD, POWER
F901	9A05353400	FUSE F1.6A
PWR1	9A06907200	TRANS, POWER
	9A07006500	TRANS POWER
	9A05338400	AM LOOP ANT ASS'Y
	9A06261100	ANT, AM LOOP
	9A04883100	ANT, FM WIRE DC-D2100
	9A06261200	ANT, FM T